

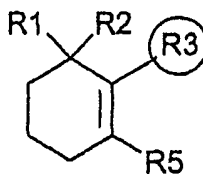
Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of the claims in the application:

Listing of Claims:

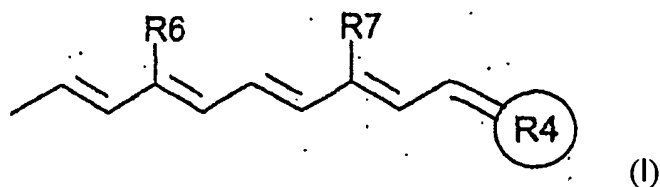
1. – 28. (cancelled)

29. (new) A composition of matter which is suitable for use on skin or hair, wherein the composition comprises one or more compounds of formula A:



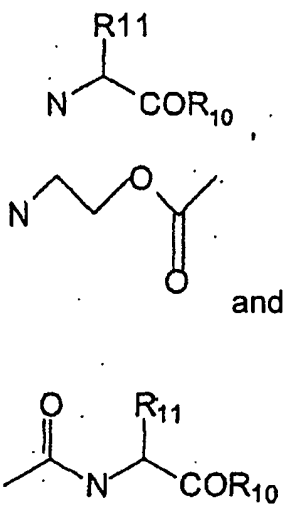
wherein

- R1, R2 and R5 are independently selected from hydrogen, methyl, ethyl, propyl, isopropyl, butyl, tert-butyl, hydroxymethyl, hydroxyethyl, hydroxypropyl, hydroxy and carboxylic acid alkyl esters having alkyl radicals selected from methyl, ethyl, propyl and butyl,
- R3 is selected from groups of formula (I)



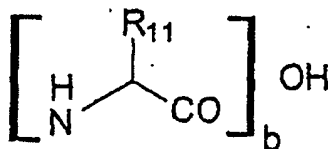
wherein

- R6 and R7 are independently selected from hydrogen, methyl, ethyl, propyl, isopropyl, butyl, tert-butyl, hydroxymethyl, hydroxyethyl, hydroxypropyl, hydroxy and carboxylic acid alkyl esters having alkyl radicals selected from methyl, ethyl, propyl and butyl,
- R4 is selected from
 - carbonyl oxygen,
 - amino acid radicals Ala, Ser, Gly, Val, Leu, Ile, Pro, Trp, Phe, Met Tyr, Thr, Cys, Asn, Asp, Glu, Lys, Arg, Gln, H, Orn, Sar, Hyl, Hyp, Hse or Hcy,
 - radicals of formulae $N-OH$, $N-(CH_2)_x-OH$, $N-(CHR_9)_x-CH_2OH$, $N-(CHR_9)_x-OH$, $N-(CH_2)_x-OCOMe$, where $x = 1-10$, and
 - radicals of formulae

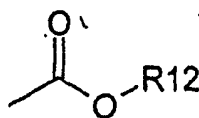


- R9 is independently selected from hydrogen and hydroxy,

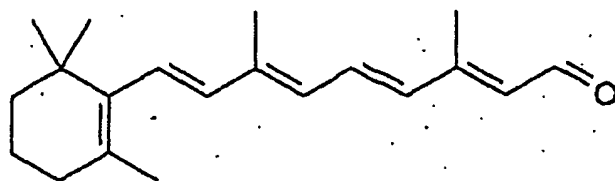
- R11 is selected from hydrogen, methyl, ethyl, propyl, prop-2-yl, butyl, isobutyl, but-2-yl, hydroxymethyl, 1-hydroxyethyl, pyrrolidine-1,2-diyl, 1H-indol-3-ylmethyl, benzyl, 2-(methylthio)ethyl, 4-hydroxybenzyl, mercaptomethyl, 2-amino-2-oxoethyl, carboxymethyl, carboxyethyl, 4-aminobutyl, 3-[[amino(imino)methyl]-amino]propyl, 3-amino-3-oxopropyl, N-Me, 3-aminopropyl, 1H-imidazol-4-ylmethyl, 4-amino-3-hydroxybutyl, 4-hydroxypyrrolidine-1,2-diyl, hydroxyethyl, and 2-mercaptoethyl,
- R10 is selected from hydroxy, peptidically N-linked amino acid radicals selected from Ala, Ser, Gly, Val, Leu, Ile, Pro, Trp, Phe, Met Tyr, Thr, Cys, Asn, Asp, Glu, Lys, Arg, Gln, H, Orn, Sar, Hyl, Hyp, Hse or Hcy, radicals of formula



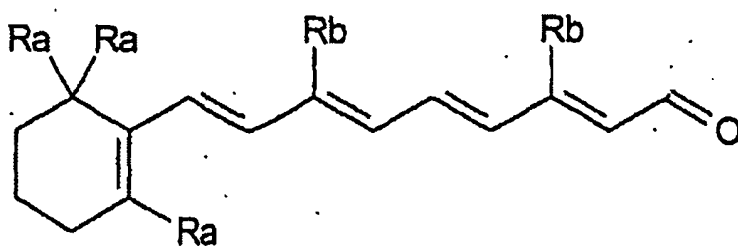
where b = 1-6, or



- R12 is selected from mono- and polysaccharides;
and at least one additional component or element;
provided that the composition does not comprise one or more of the following compounds as the only compound or compounds of formula A:
(a) 9-retinal of formula



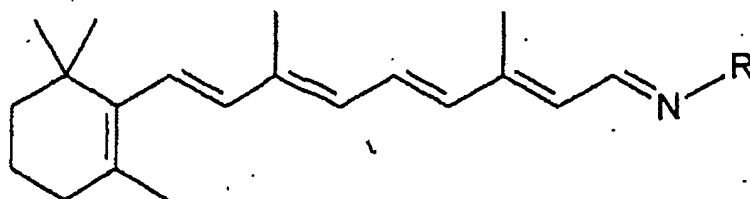
(b) retinal derivatives of formula



where Ra and Rb are independently selected from alkyl and alkoxy groups;

and

(c) 9-retinal alkanolamine Schiff's base of formula



where $R = R'(OH)_n$ branched or unbranched alkanols, with $R' = C_{1-20}$ hydrocarbon radical and $n = 1 - 5$.

30. (new) The composition of matter of claim 29, wherein the composition comprises a cosmetic preparation, a dermatological preparation, a polymer

matrix, a skin covering, a wound covering, a bandage, a wipe, a pad, a spray or a textile.

31. (new) The composition of matter of claim 29, wherein the composition is a cosmetic preparation or a dermatological preparation.

32. (new) The composition of matter of claim 30, wherein at least one of R1, R2, R5, R6, and R7 is a methyl radical.

33. (new) The composition of matter of claim 32, wherein R4 is selected from Ala, Ser and Gly.

34. (new) The composition of matter of claim 29, wherein the composition comprises one or more of *N*-3,7-dimethyl-9-(2,6,6-trimethylcyclohex-1-en-1-yl)nona-2,4,6,8-tetraen-1-ylidene]alanine, (1E,2E,4E,6E,8E)-3,7-dimethyl-9-(2,6,6-trimethylcyclohex-1-en-1-yl)nona-2,4,6,8-tetraenal oxime, 2-[[[(1E,2E,4E,6E,8E)-3,7-dimethyl-9-(2,6,6-trimethyl-cyclohex-1-en-1-yl)nona-2,4,6,8-tetraen-1-ylidene]amino]ethanol, 1-[[[(1E,2E,4E,6E,8E)-3,7-dimethyl-9-(2,6,6-trimethylcyclohex-1-en-1-yl)nona-2,4,6,8-tetraen-1-ylidene]amino]propane-1,2,3-triol, *N*-[(2E,4E,6E,8E)-3,7-dimethyl-9-(2,6,6-trimethylcyclohex-1-en-1-yl)nona-2,4,6,8-tetraen-1-ylidene]-L-alanyl-L-alanine, *N*-[(2E,4E,6E,8E)-3,7-dimethyl-9-(2,6,6-trimethylcyclohex-1-en-1-yl)nona-2,4,6,8-tetraen-1-ylidene]-L-seryl-L-serine and acetyl-retinyliminoethanol.

35. (new) The composition of matter of claim 29, wherein the composition comprises at least acetyl-retinyliminoethanol as compound of formula A.

36. (new) The composition of matter of claim 29, wherein the composition comprises from 0.0001% to 30% by weight of one or more compounds of formula A.

37. (new) The composition of matter of claim 35, wherein the composition comprises from 0.01% to 10% by weight of one or more compounds of formula A.

38. (new) The composition of matter of claim 32, wherein the composition comprises from 0.02% to 2% by weight of one or more compounds of formula A.

39. (new) The composition of matter of claim 29, wherein the composition comprises one or more compounds of formula A in encapsulated form.

40. (new) The composition of matter of claim 39, wherein an encapsulation material comprises one or more of a collagen matrix, a cyclic oligosaccharide, alpha-, beta-, HP-beta-, random-Me-beta- and gamma-cyclodextrin, cellulose, gelatin, a wax matrix and liposomes.

41. (new) The composition of matter of claim 29, wherein the composition comprises at least one of a UVA filter, a UVB filter and an inorganic pigment.

42. (new) The composition of matter of claim 29, wherein the composition comprises an inorganic micropigment.

43. (new) The composition of matter of claim 29, wherein the composition comprises from 0.001% to 30% by weight of one or more antioxidants.

44. (new) The composition of matter of claim 36, wherein the composition comprises from 0.05% to 20% by weight of one or more antioxidants.

45. (new) The composition of matter of claim 37, wherein the composition comprises from 0.1% to 10% by weight of one or more antioxidants.

46. (new) The composition of matter of claim 29, wherein the composition comprises at least one component selected from preservatives, bactericides, perfumes, substances for preventing foaming, dyes, fillers, pigments which have a coloring effect, thickeners, wetting and/or humectant substances, fats, oils, waxes, alcohols, polyols, polymers, foam stabilizers, electrolytes, organic solvents, silicone derivatives, moisturizers, vitamins, proteins, photoprotective agents, stabilizers, insect repellents, water, salts, antimicrobially, proteolytically or keratolytically effective substances, and medicaments.

47. (new) The composition of matter of claim 29, wherein the composition comprises from 0.05% to 30% by weight of glycerol.

48. (new) The composition of matter of claim 45, wherein the composition comprises from 1% to 10% by weight of glycerol.

49. (new) The composition of matter of claim 29, wherein the composition comprises one or more components selected from active ingredients which have a positive effect on the condition of the skin, promoting agents for restructuring connective tissue, active ingredients for assisting skin functions in cases of dry skin, active ingredients for at least one of alleviating and positively influencing irritated skin states, inhibitors of prostaglandin metabolism, modulators of pigmentation, and active ingredients which bring about an enhanced or more rapid tanning of skin.

50. (new) The composition of matter of claim 49, wherein the composition comprises one or more components selected from bioquinones, creatin, creatinin, carnitine, biotin, isoflavone, cardiolipin, lipoic acid, antifreezing proteins, hop extracts, hop-malt extracts, isoflavonoids, vitamin C, propionic acid, green tea extracts, eucalyptus oil, urea, mineral salts, sea minerals, osmolytes, sericosides, extracts of licorice, licochalcones, silymarin, silyphos, dexpanthenol, inhibitors of cyclooxygenase metabolism, inhibitors of leukotriene metabolism, FLAP, tyrosine sulfate, dioic acid, lipoamide, kojic acid, hydroquinone, arbutin,

fruit acids, bearberry (Uvae ursi), ursolic acid, green tea extracts, aminoguanidine, pyridoxamine, Advanced Glycation End products (AGE), lipofuscins, nucleic acid oligonucleotides, purins, pyrimidines, and NO-releasing substances.

51. (new) The composition of matter of claim 29, wherein the composition comprises at least one of an aqueous system and a surfactant preparation which is suitable for cleansing or care of at least one of skin and hair.

52. (new) The composition of matter of claim 29, wherein the composition comprises at least one of a multiple emulsion, a microemulsion, a Pickering emulsion and a sprayable emulsion.

53. (new) The composition of matter of claim 29, wherein the composition comprises at least one of a presun formulation, a sunscreen formulation and an aftersun formulation.

54. (new) The composition of matter of claim 29, wherein the composition is in a form which is suitable for topical application to at least one of skin and hair.

55. (new) A composition for application to at least one of skin and hair, wherein the composition is selected from at least one of a shower gel, a shampoo, a conditioner, a hair care treatment, a hair rinse, a hair tonic, a hair

spray, a make-up composition, a skin protection cream, a face cream, a cleansing cream, a sunscreen cream, a nutrient cream, a day cream, a night cream, a gel, a lotion, and a cleansing preparation and comprises the composition of matter of claim 29.

56. (new) A method of tanning skin, wherein the method comprises applying the composition of matter of claim 29 to skin.

57. (new) A method of caring for skin, wherein the method comprises applying the composition of matter of claim 29 to skin.

58. (new) A method of protecting skin or hair from harmful UV rays, wherein the method comprises applying the composition of matter of claim 29 to the skin or hair to be protected.

59. (new) A method of increasing synthesis of melanin in skin, wherein the method comprises applying the composition of matter of claim 29 to skin.

60. (new) A method of prolonging brown coloration of skin, wherein the method comprises applying the composition of matter of claim 29 to skin.

61. (new) A method of protecting skin against oxidative stress, wherein the method comprises applying the composition of matter of claim 29 to skin.

62. (new) A method of protecting skin against chronological and photo-induced skin aging, wherein the method comprises applying the composition of matter of claim 29 to skin.

63. (new) A method of intensifying hair color, wherein the method comprises applying the composition of matter of claim 29 to hair.

64. (new) A method of preventing at least one of graying of hair and for protecting hair against sunlight-induced bleaching, wherein the method comprises applying the composition of matter of claim 29 to hair.

65. (new) The composition of matter of claim 29, wherein the composition is capable of at least one of increasing skin tanning and melanin synthesis in at least one of skin and hair.